From: Robert Pyke [mailto:bobpyke@attglobal.net]
Sent: Sunday, April 17, 2011 4:54 PM
To: Isenberg, Phil@DeltaCouncil; Grindstaff, Joe@DeltaCouncil
Subject: presentation on possible solutions?

Phil, Joe,

Tom Zuckerman has reported to me that Joe has expressed interest in his ten "Big Affordable Ideas" which include the notion of moving the export intakes to the Western Delta rather than the Northern Delta, as discussed in my Contra Costa Times Op-Ed on Christmas Day and in my written comments on the first staff draft of the Delta Plan. I would be happy to make a brief 10-15 minutes presentation at the next Council meeting on this subject along the lines shown in the attachment. The presentation also covers Tom's Big idea No. 9. It is in fact a fragment of a longer presentation that I made to Restore the Delta in Stockton in March and that I am repeating in Rio Vista on May 4. I believe that Joe correctly recognizes that this is an idea that is out there that must be considered in your development of the Delta Plan.

Regards,

Bob

_____
Robert Pyke, Consulting Engineer
1076 Carol Lane, No. 136
Lafayette CA 94549
925 323 7338

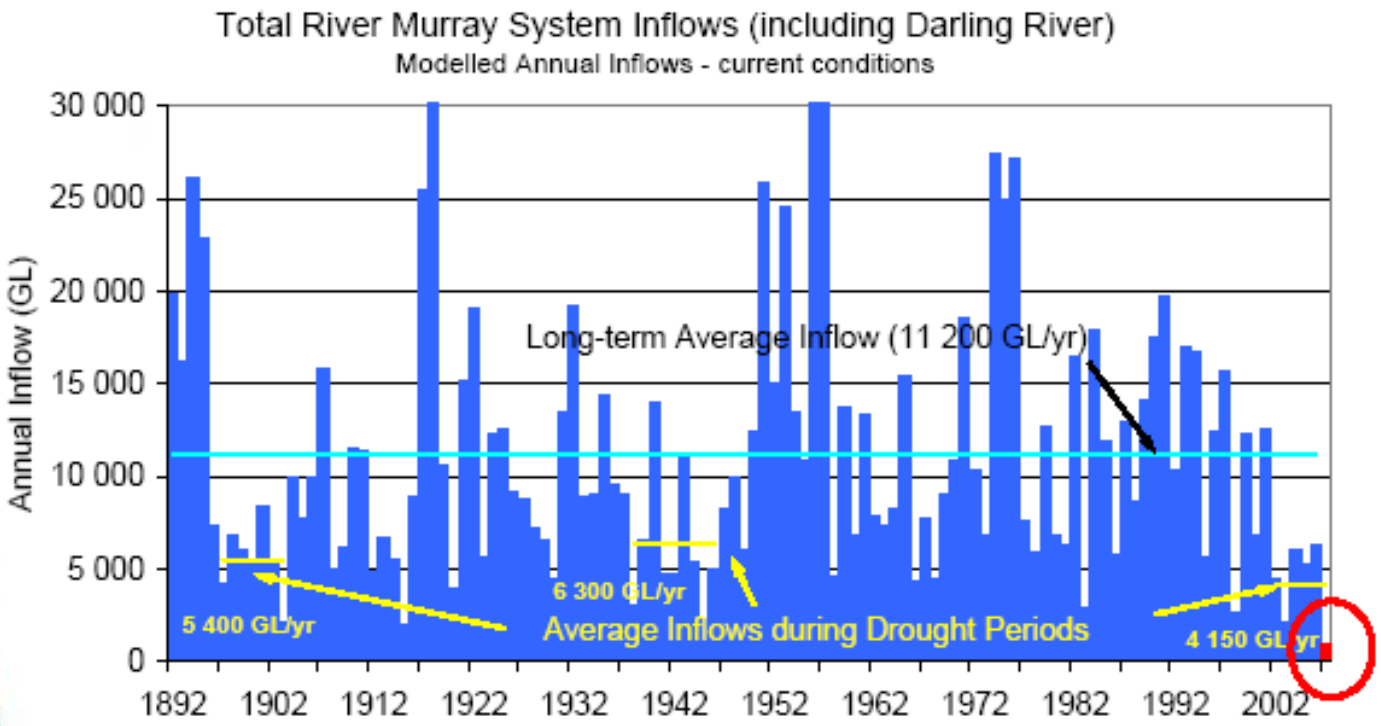
A proposed solution to basic conveyance and ecosystem restoration problems.

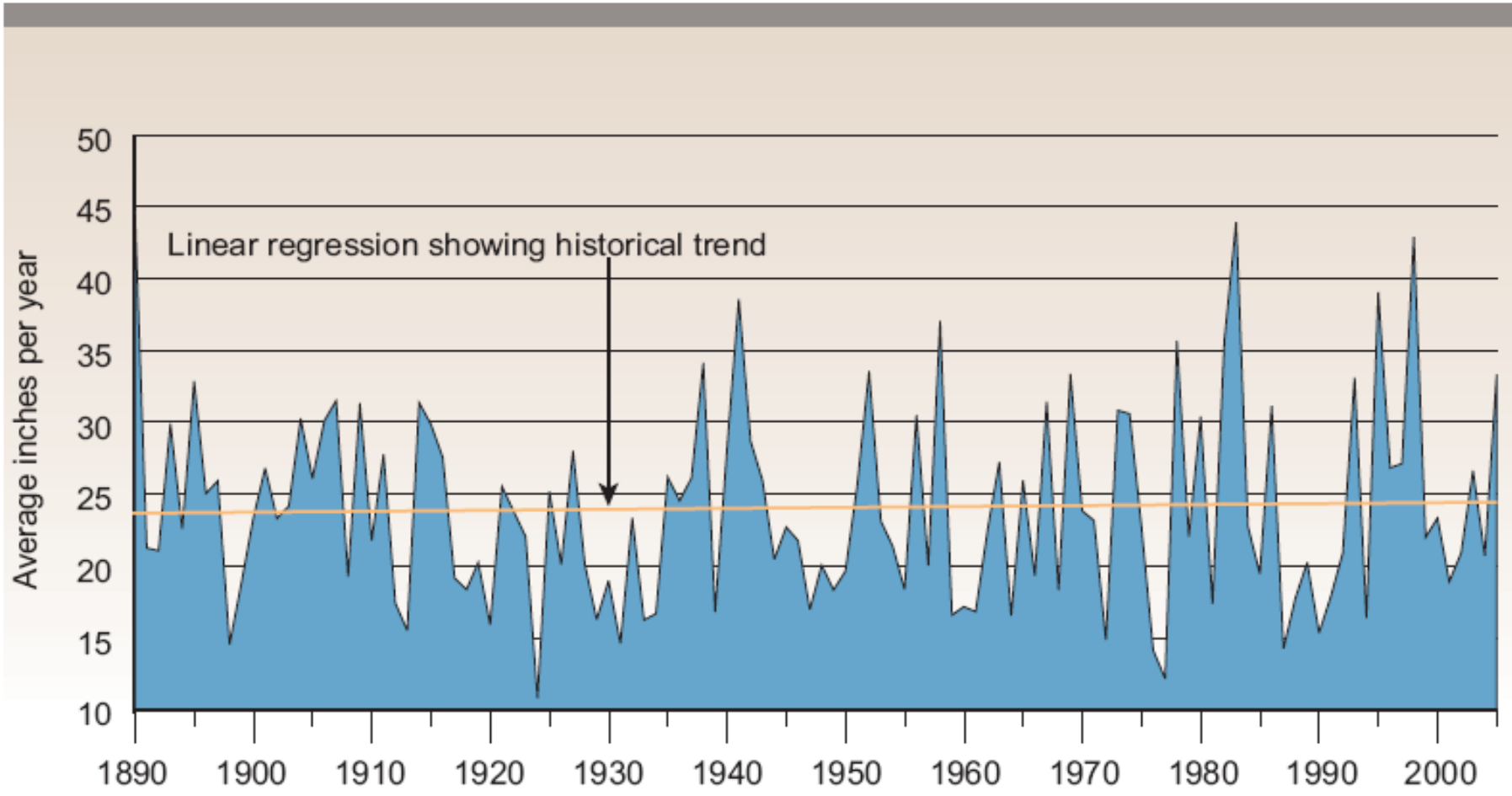
By Robert Pyke Ph.D., G.E.

Robert Pyke, Consulting Engineer

Lafayette, CA

River Murray System Inflows (including Darling) Annual Totals





116 year average: 23.88 inches

Driest 30 years (1908-1937): 21.28 inches

Wettest 30 years (1977-2006): 24.88 inches

Yearly precipitation calculated from average of 95 stations spread across California. Data collected by Jim Goodridge, state climatologist formerly with DWR.

Source: California Department of Water Resources

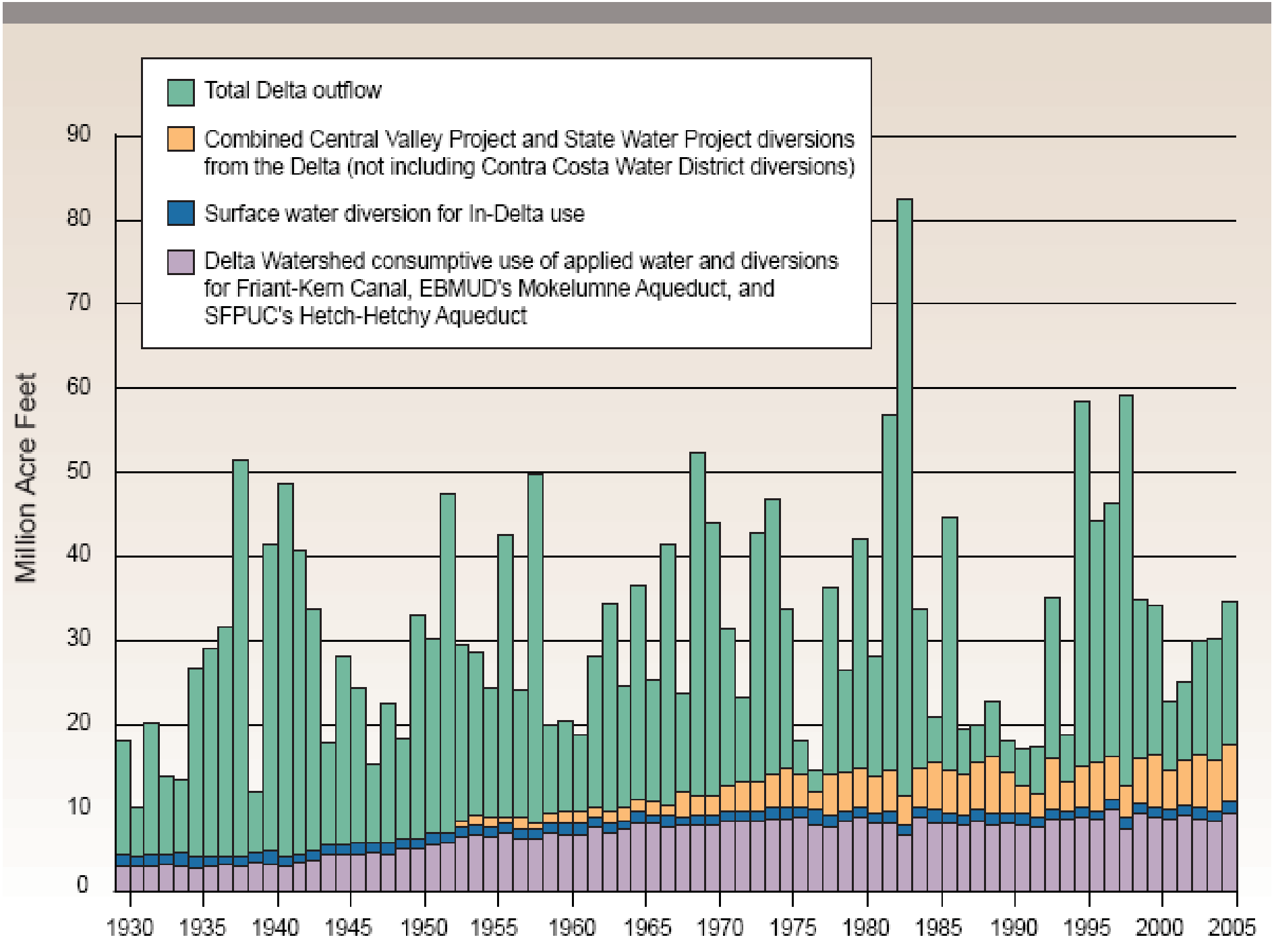
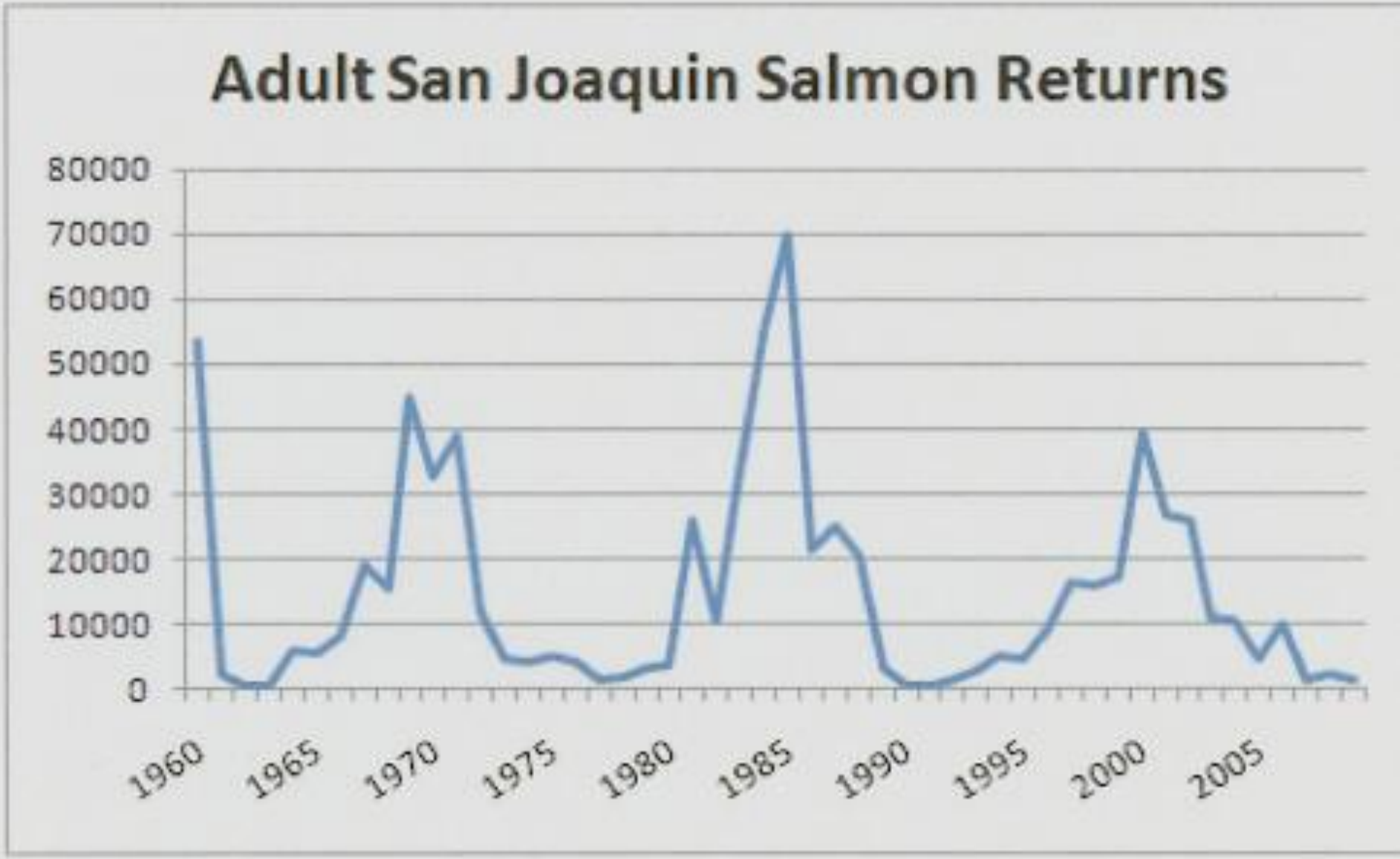
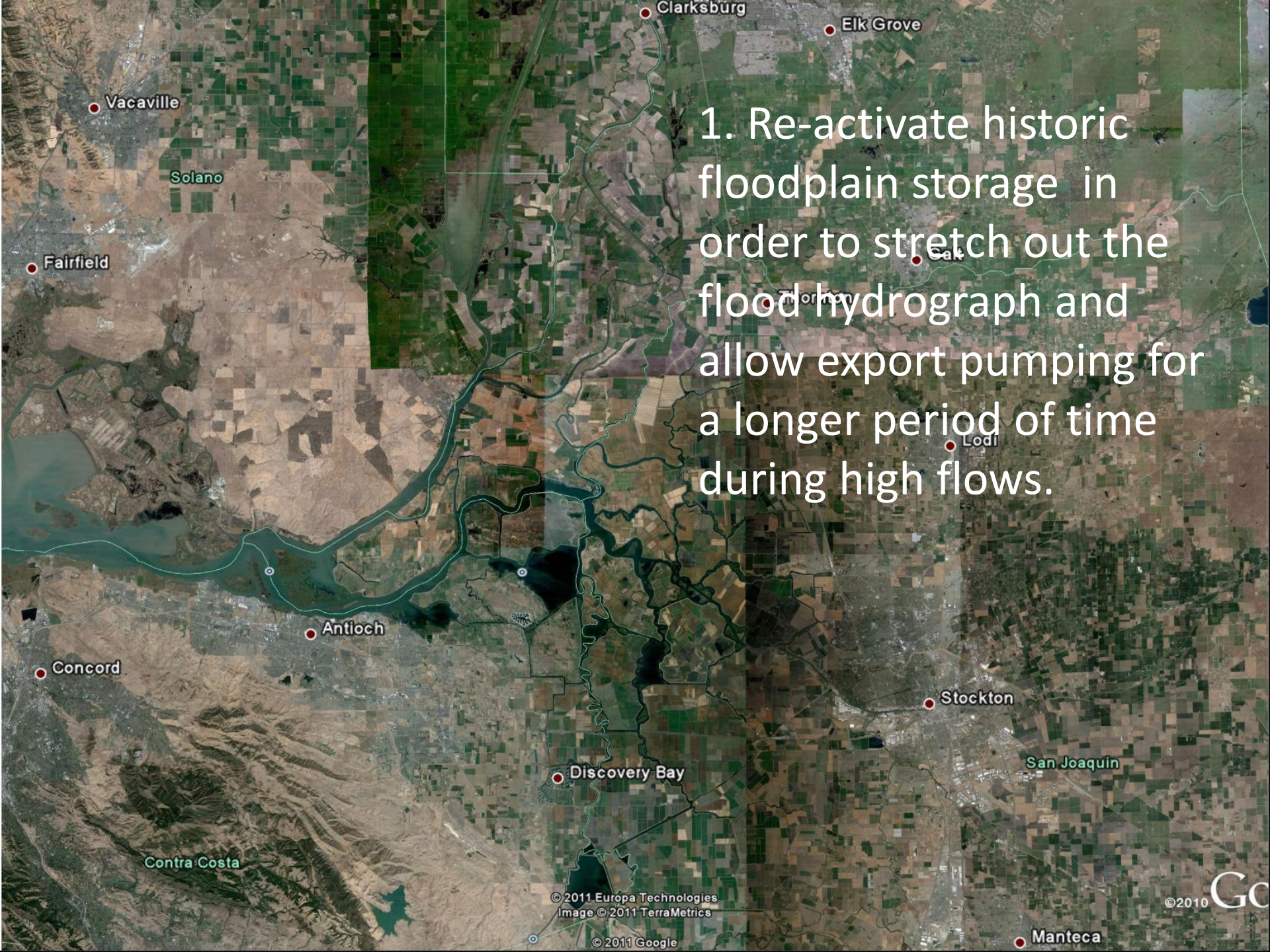

Total Delta outflow
Combined Central Valley Project and State Water Project diversions from the Delta (not including Contra Costa Water District diversions)
Surface water diversion for In-Delta use
Delta Watershed consumptive use of applied water and diversions for Friant-Kern Canal, EBMUD's Mokelumne Aqueduct, and SFPUC's Hetch-Hetchy Aqueduct
Million Acre Feet
0
10
20
30
40
50
60
70
80
90
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005

Figure B. Adult San Joaquin Salmon Returns 1960-2009



Two basic principles:

- Extract more water during high flows and less or no water during low flows
- Allow natural flows to pass through the Delta before any surplus flows are extracted



1. Re-activate historic floodplain storage in order to stretch out the flood hydrograph and allow export pumping for a longer period of time during high flows.

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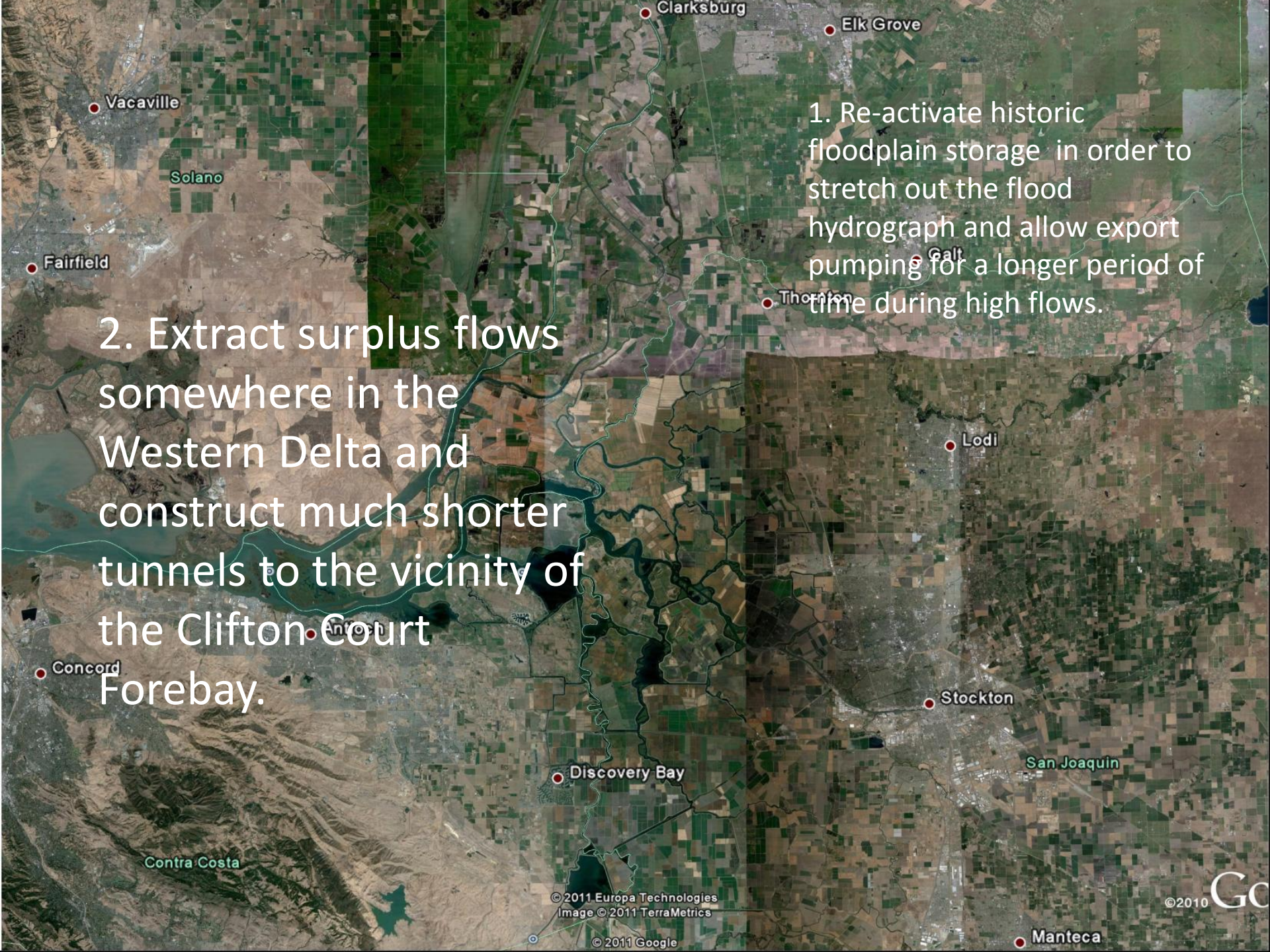
Has additional ecosystem restoration and flood mangement benefits!



1. Re-activate historic floodplain storage in order to stretch out the flood hydrograph and allow export pumping for a longer period of time during high flows.

2. Extract surplus flows somewhere in the Western Delta and construct much shorter tunnels to the vicinity of the Clifton Court Forebay.

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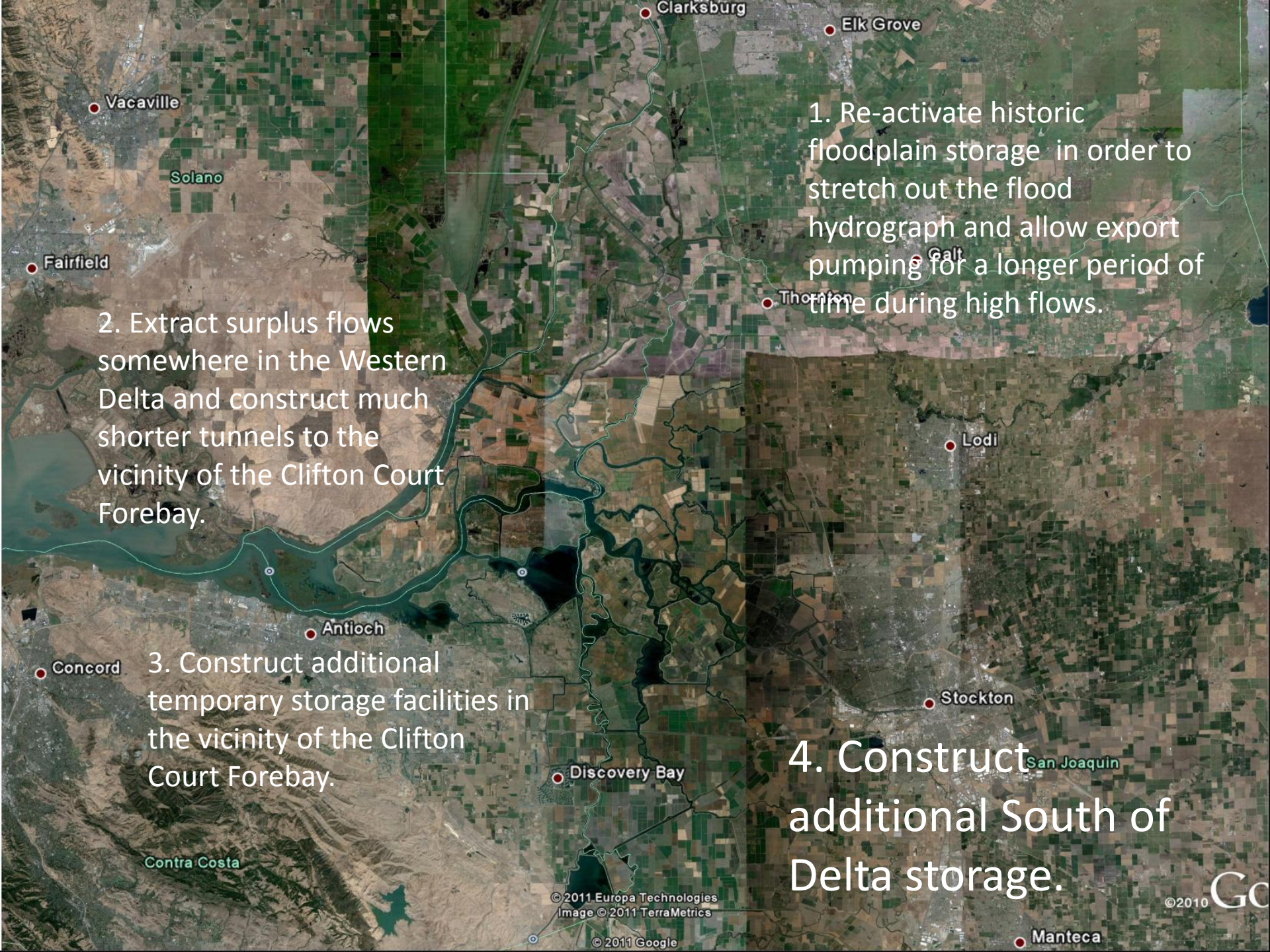
2. Extract surplus flows somewhere in the Western Delta and construct much shorter tunnels to the vicinity of the Clifton Court Forebay.

3. Construct additional temporary storage facilities in the vicinity of the Clifton Court Forebay.


Clarksburg
Elk Grove
Vacaville
Solano
Fairfield
Galt
Thornton
Lodi
Antioch
Concord
Stockton
San Joaquin
Discovery Bay
Contra Costa
Manteca
1. Re-activate historic floodplain storage in order to stretch out the flood hydrograph and allow export pumping for a longer period of time during high flows.
2. Extract surplus flows somewhere in the Western Delta and construct much shorter tunnels to the vicinity of the Clifton Court Forebay.
3. Construct additional temporary storage facilities in the vicinity of the Clifton Court Forebay.
4. Construct additional South of Delta storage.
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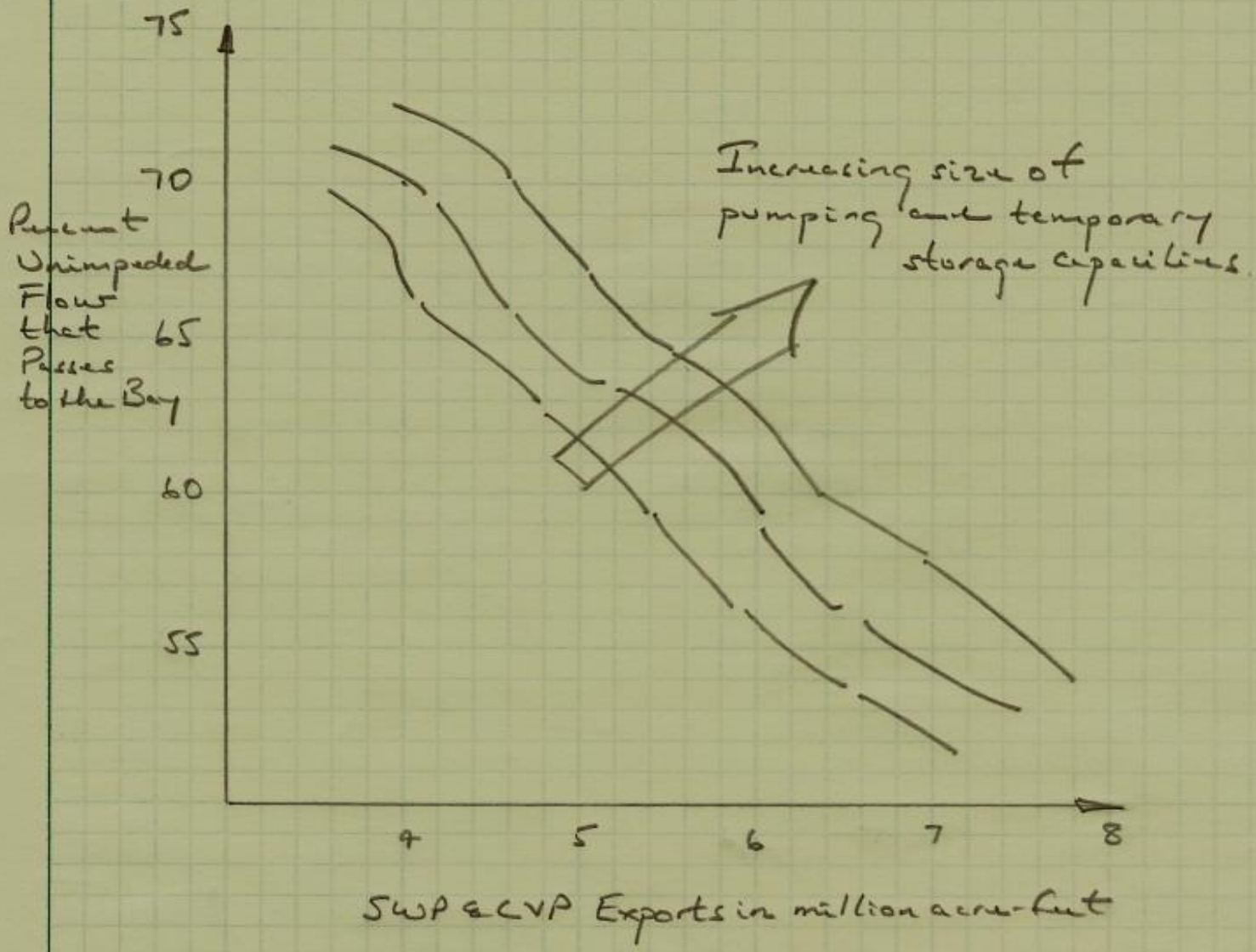

Thank you!

I’d be happy to address easy questions.